



# **RAMA DEVI WOMEN'S UNIVERSITY**

**Vidya Vihar, Bhubaneswar-751022**

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## **SEMINARS/CONFERENCES/WORKSHOPS/WEBINARS CONDUCTED BY DEPARTMENT OF BIOTECHNOLOGY**

### **1. Event: Workshop**

### **2. Title of the Event: Three Days Hands-on Workshop on Molecular and Microbial Techniques: Bridging Concepts with NEP-2020 curriculum**

### **3. Date & Duration: 21<sup>st</sup> – 23<sup>rd</sup> August 2025**

### **4. Objective/Motivation of the Event:**

The objective of the Three-Day Hands-on Workshop on Molecular and Microbial Techniques: Bridging Concepts with NEP-2020 Curriculum is to provide participants with practical exposure to fundamental techniques in molecular biology and microbiology, thereby enhancing their understanding of core scientific concepts through experiential learning. This workshop is motivated by the principles of the National Education Policy (NEP) 2020, which emphasizes skill-based, inquiry-driven, and holistic education. By combining theory with hands-on practice, the event aims to bridge the gap between classroom learning and laboratory application, fostering critical thinking and research-oriented skills among students and educators.

Participants will gain experience in essential techniques such as DNA extraction, PCR, gel electrophoresis, microbial culturing, and staining, all of which are vital in modern biological sciences. The workshop also seeks to promote interdisciplinary learning and prepare students for advanced studies and careers in the life sciences. Overall, this initiative is designed to nurture scientific temper, technical competence, and a deeper appreciation for the integration of molecular and microbial techniques within the framework of NEP-2020.

### **5. Theme of the Event: Integration of laboratory techniques with the educational vision of NEP-2020 for holistic scientific learning.**

### **6. Funding Agency: Department of Higher Education, Govt. of Odisha**

### **7. Funds Received (In Rs.): Rs. 1,48,300/-**

### **8. Technical Session (Details)**

#### **i. No. of Technical sessions conducted: 03**

### **9. Title of the Technical sessions:**

**Session 1 :** Role of Microbial Techniques in Diagnostics & Industry

**Session 2 :** Proteomics Technology - Applications in Biotechnology & Life Sciences

**Session 3 :** Bioinformatics and its role in improvement of living organisms

## **10. Chairperson of the technical session:**

Technical session 1 : Prof. Sakti Kanta Rath

Technical session 2 : Prof. Sujata Mohanty

Technical session 3 : Prof. Sasmita Mohanty

## **Resource persons (Details):**

Day 1 : **Prof. Nilotpala Pradhan**, Senior Principal Scientist & Professor (AcSIR), CSIR-IMMT, Bhubaneswar

Day 2 : **Dr. Bimal Prasanna Mohanty**, Professor of Biochemistry, SOA University & Former Asst. Director General (ICAR), New Delhi

Day 3 : **Dr. Jitendra Kumar Sundaray**, Principal Scientist & Head, Fish Genetics & Biotechnology Division, ICAR-CIFA, Bhubaneswar

## **11. Participants Details (Indicate Numbers only)**

i. **Scientists/Faculty/Members of industry: 35**

ii. **Ph. D. Scholars: 30**

## **12. Outcomes of the Event:**

The workshop commenced with an enriching inaugural session marked by warm felicitation, ceremonial lamp lighting, and insightful addresses by esteemed dignitaries. Prof. Nilotpala Pradhan's lecture Talk on the role of Microbial Techniques in Diagnostics and Industry highlighted the critical applications of microbiology in modern healthcare and industrial processes. Lab session on microbial techniques helped students gain hands-on skills in plating, culturing, sterilization, and Gram staining, enhancing their understanding of microbial handling and identification techniques. Dr. Bimal Prasanna Mohanty lecture on Proteomics Technology - Applications in Biotechnology & Life Sciences showcased the key role of Proteomics in advancing drug development, disease research, and biotechnology. The lab session on molecular biotechnology tools helped the participants to gain hands-on experience, improving skills in techniques like DNA isolation, polymerase chain reaction and gel electrophoresis, which are essential for genetic analysis and biotechnology applications. Dr. Jitendra Kumar Sundaray's talk on Bioinformatics and its role in improvement of living organisms highlighted how bioinformatics accelerates genetic research, breeding programs, and disease understanding, leading to innovations in agriculture, medicine, and environmental science. The lab session on bioinformatics tools and plant tissue culture highlighted the importance of integrating computational analysis with practical biotechnology. Participants learned to use bioinformatics software for genetic data analysis and applied plant tissue culture techniques to propagate plants. The event ended with the valedictory session, expressing gratitude to the organizers, speakers, and participants, highlighting key takeaways from the event and encouraging continued learning and collaboration in the field. The session was graced by Prof. Chandi Charan Rath, Vice Chancellor of Rama Devi Women's University, who commended the initiative and encouraged continued academic excellence. Prof. Raj Kumar Joshi, Convener and Head of the Department of Biotechnology, emphasized the need for experiential learning in biotechnology education through workshops which play a pivotal role

in nurturing scientific curiosity, developing technical competencies, and fostering collaboration among academia, research, and industry.

### 13. Recommendations (if any):

The organizing committee was very pleased with the overall execution of the event in a smooth and successful manner.

### 14. Selected Photographs : Enclosed



Inaugural session of the Three-Day Workshop on Molecular and Microbial Techniques



Glimpses from the technical sessions of Day 1, 2, and 3 of the Hands-on Workshop on Molecular and Microbial Techniques, featuring expert lectures and active participant engagement.



Lab sessions from Day 1–3 of the workshop, highlighting hands-on training in molecular and microbial techniques.



Valedictory session of the Three-Day Workshop on Molecular and Microbial Techniques



Group photo of the participants, research scholars, faculty members, and the organizing committee of the Hands-on Workshop on Molecular and Microbial Techniques.

# Three Days Hands-on workshop on Molecular and Microbial Techniques: Bridging concepts with NEP-2020 curriculum

21<sup>st</sup> -23<sup>rd</sup> August, 2025

## LIST OF PARTICIPANTS

Sl. No.	NAME	AFFILIATION	Signature
1	Saraswati Majhi	Shailabala Women's Autonomous College	Saraswati Majhi 21/8/25
2	Ananda Rukmini	Shailabala Women's Autonomous College	Ananda Rukmini 21/8/25
3	Subhasis Sahoo	Shailabala Women's Autonomous College	Subhasis Sahoo
4	Dr Prasanta Kumar Samantray	Shailabala Women's Autonomous College	Prasanta K Samantray
5	Dr.A.K.Khillar	Shailabala Women's Autonomous College	A.K. Khillar
6	Sangit Kumar Nanda	Bhuban Women's Degree College	Sangit Kumar Nanda
7	Dr Sagorika panda	Dhenkanal Mahila Mahavidyalaya	Sagorika Panda 21/08/25
8	Dr. Shidharth Sankar Ram	Dhenkanal Mahila Mahavidyalaya	Sham. 21/08/25
9	Leena Gantayat	Dhenkanal Mahila Mahavidyalaya	Leena Gantayat 21/8/25
10	Dr. Madhusmita Nayak	Dhenkanal Mahila Mahavidyalaya	Madhusmita Nayak
11	Matru Prasad Mohanty	Dhenkanal Mahila Mahavidyalaya	Matru Prasad Mohanty
12	Malabika Dwivedee	G.B.Womens College,Kaduapada, Jagatsinghpur	Malabika Dwivedee 21-08-25
13	Dr. Mousumi Madhusmita Pattnaik	Sri Sathya Sai College for Women, Bhubaneswar	Mousumi M. Pattnaik 21/08/2025
14	Saibalini Behera	Sri Sathya Sai college for women Bhubaneswar	Saibalini Behera
15	Sushree Sambedita Swain	Bhuban Women's Degree College	Sushree Sambedita Swain
16	Subrat Sahani	Anandapur College	Subrat Sahani
17	Sumitra Das	Mahapurush Hadidas Mahavidyala, Jajpur	Sumitra Das
18	Priyadarshni Sahu	Angul Mahila Mahavidyalaya, Angul	Priyadarshni Sahu
19	Begum Asifa Nashreen	Japakud Women's Degree College	Begum Asifa Nashreen 21/08/25
20	Akankshya Dash	Govt. Womens College, Keonjhar	Akankshya Dash
21	Dr.Sparsha Pattnaik	Rama Devi Women's University	Sparsha Pattnaik 21.8.25
22	Dr. Sangram Keshori Mohanty	Rama Devi Women's University	Dr. Sangram Keshori Mohanty

23	Subarjit Nath	Kadambinipal Womens Degree College, Jajpur	Subarjit Nath
24	Bindulata Panda	Sri Satya Sai College for Women	Bindulata Panda
25	Kabita Sethi	Kadambinipal Womens Degree College, Jajpur	Kabita Sethi
26	Tista Mallick	Rama Devi Women's University	Tista Mallick
27	Rushda Aarif	Rama Devi Women's University	Rushda
28	Pyari Payal Beura	Rama Devi Women's University	Payal
29	Sunita Sahoo	Rama Devi Women's University	Sunita
30	Shibani Jena	Rama Devi Women's University	Shibani Jena
31	Sulagna Dash Mohapatra	Rama Devi Women's University	Sulagna Dash Mohapatra
32	Ankita Sahu	Rama Devi Women's University	Ankita Sahu
33	Shubhanshee Sanshlishta Sahu	Rama Devi Women's University	Shubh
34	Richa Sharma	Rama Devi Women's University	Richa
35	Alaka Mohanty	Rama Devi Women's University	Alaka Mohanty
36	Subhashree Samal	Rama Devi Women's University	Subhashree Samal
37	Subhrakali Jena	Rama Devi Women's University	Subhrakali Jena
38	Soumya Surajita Sahoo	Rama Devi Women's University	Soumya Surajita Sahoo
39	Jayashree Sahoo	Rama Devi Women's University	Jayashree Sahoo
40	Prachita Das	Rama Devi Women's University	Prachita Das
41	Pratikhya Nanda	Rama Devi Women's University	Pratikhya Nanda
42	Priyadarshini Padhi	Rama Devi Women's University	Priyadarshini Padhi
43	Nitu Sahoo	Rama Devi Women's University	Nitu Sahoo
44	Sibani Sahoo	Rama Devi Women's University	Sibani Sahoo
45	Smaranika Mania	Rama Devi Women's University	Smaranika Mania
46	Sudeshna Dey	Rama Devi Women's University	Sudeshna Dey
47	Sonali Priyadarshini	Rama Devi Women's University	Sonali Priyadarshini

48	Madhumita Sahoo	Rama Devi Women's University	Madhumita Sahoo
49	Subhadarsini Mohanty	Rama Devi Women's University	Subhadarsini Mohanty
50	Ankuri Benya	Rama Devi Women's University	Ankuri Benya
51	B Reshma	Ph.D. Scholar, Life Sciences, Rama Devi Women's University	B Reshma
52	Sumitra Priyadarsini Ojha	Ph.D. Scholar, Life Sciences Rama Devi Women's University	Sumitra Priyadarsini Ojha
53	Prajna Sarita Sathy	Rama Devi Women's University	Prajna Sarita Sathy
54	Sailaja Priyadarsini	Rama Devi Women's University	Sailaja Priyadarsini
55	Sonali Nayak	Rama Devi Women's University	Sonali Nayak
56	Sunanda Swain	Rama Devi Women's University	Sunanda Swain
57	Sujata Hota	Rama Devi Women's University	Sujata Hota
58	Alisha Nayak	Rama Devi Women's University	Alisha Nayak
59	Madhusmita Mohanty	Ph.D. Scholar, Life Science Rama Devi Women's University	Madhusmita Mohanty
60	Ippsita Mishra	Guest faculty, Dept of Botany	Ippsita Mishra
61	Subhashree Karan	Guest Faculty, Zoology dept.	Subhashree Karan
62	Swati sonar lenka	lect. in zoology Tulasi Women's College, Kendrapara	Swati sonar lenka
63	Subhalakshmi Rout (Ph.D. scholar)	Rama Devi Women's University	Subhalakshmi Rout
64	Dr Rajarshi Sahoo	Lecturer, KNUC, BBSR	R Sahoo 21/8/15
65	Sweta Mishra	Ph.D. scholar, RDWU, BBSR	Sweta Mishra